DT07 Rec'd PCT/PT0 16 DEC 2004

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

COOK DOSSETTES

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## TRANSMITTAL LETTER TO THE UNITED STATES

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DESIGNATED/ELECTED CONCERNING A SUBMISSIO	U.S. APPLICATION NO. (If known, see 37 CFR 1.5)									
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE		Not Yet Assigned O L Z								
PCT/US03/36643	November 14, 2003	PRIORITY DATE CLAMED								
TITLE OF INVENTION	November 14. 2005	November 14, 2002								
Method and Apparatus For Enhancing Heat Pump and Refrigeration Equipment										
APPLICANT(S) FOR DO/EO/US	PLICANT(S) FOR DO/EO/US									
SAMI, Samuel, KULISH, Pet	SAMI, Samuel, KULISH, Peter, KITA, Ronald and SHIVO, Garrett									
_	olicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:									
1. XX This is a FIRST submission of items co	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.									
2. This is a SECOND or SUBSEQUENT'S	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.									
3. This is an express request to begin nation (5), (6), (9) and (21) indicated below.	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.									
4. The US has been elected (Article 31).	The US has been elected (Article 31).									
5. XX A copy of the International Application	A copy of the International Application as filed (35 U.S.C. 371(c)(2))									
a. Li is attached hereto (required	a. is attached hereto (required only if not communicated by the International Bureau).									
	b. has been communicated by the International Bureau.									
	c. xx is not required, as the application was filed in the United States Receiving Office (RO/US).									
	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).									
a. Li is attached hereto.	a. Lis attached hereto.									
	b. Las been previously submitted under 35 U.S.C. 154(d)(4).									
	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))									
a. 🔲 are attached hereto (requir	a.									
	b.									
	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).									
_	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).									
10. An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).									
Items 11 to 20 below concern document(s	) or information included:	·								
11. An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.	;								
	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.									
13. XX A preliminary amendment.										
14. An Application Data Sheet under 37 C	CFR 1.76.									
15. A substitute specification.										
16. A power of attorney and/or change of	address letter.									
17. A computer-readable form of the sequ	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.									
18. A second copy of the published Intern	A second copy of the published International Application under 35 U.S.C. 154(d)(4).									
19. A second copy of the English languag	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).									
20     Other Hame or information.										

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTC-1390 (Rev. 12-2004)
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U.S. APPLICATION NO. INTERNATIONAL APPLICATION NO.					ATTORNEY'S DOCKET NUMBER			
Not Yet Assigned 184 3 8 PCT/US03/36643					0206-P03325US1			
21. The following fees are submitted:    X   a   Basic national fee					Applicant use	Office use only		
1==						\$ 300.00		
X b) Examina	ation fee	• • • • • • • • • • • • • • • • • • • •			\$200.00	\$ 200.00		
X c) Search fee\$500.00					\$ 500.00			
TOTAL OF ABOVE CALCULATIONS = \$1000.00					\$1000.00			
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence						<del></del>		
listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.								
Total Sheets	Extra sheets	neets Number of each additional 50 or fraction thereof (round up to a whole number)		RATE				
- 100 =	/50 =			× \$250.00		\$		
Surcharge of \$13	30.00 for furnishing the o	ath or dec	laration later than 30 months fr	om the	earliest			
claimed priority d	late (37 CFR 1.492(e)).		·			\$	<u></u>	
CLAIMS	NUMBER FII	.ED	NUMBER EXTRA		RATE	\$		
Total claims		- 20 =	3	x	\$50.00	\$ 150.00		
Independent dai		- 3 =	0	x	\$200.00	\$ 0		
MULTIPLE DEPE	ENDENT CLAIM(S) (if ap	plicable)		+	\$360.00	\$ .		
TOTAL OF ABOVE CALCULATIONS =					\$1150.00			
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.					<sup>\$</sup> 575.00			
SUBTOTAL =					\$575 <b>.</b> 00			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).					\$			
TOTAL NATIONAL FEE =					\$ 575.00			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					\$			
TOTAL FEES ENCLOSED =					\$ 575.00			
Amount to be refunded:					ullillilli.	\$		
Amount to be charged							\$	
a. X A chec	k in the amount of \$ 5	75 00	to cover the above	va faac i	s analosad			
to cover the above rees is enclosed.								
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees.  A duplicate copy of this sheet is enclosed.								
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No.04-1406. A duplicate copy of this sheet is enclosed.								
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.								
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.								
and granted to restore the international Application to pending status.  EXPRESS MAIL NUMBER EV307 65789US  SEND ALL CORRESPONDENCE TO:								
CUSTOMER NUMBER 000110								
Stephen H. Eland								
Dann, Dorfman, Herrell and Skillman Suite 2400 Stephen H. Eland							:	
Philadelphia, PA 19103-2307  NAME						DIANG		
	41,010							
REGISTRATION NUMBER								